

Notice of Allowability

Application No.

10/056,159

Examiner

Brenda Pham

Applicant(s)

WASHABAUGH ET AL.

Art Unit

2664

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 01/24/02.
2. ☒ The allowed claim(s) is/are 1-6,8-27,29-37,39-47,49-58, renumbering as 1-54, respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 04/29/02
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

Brenda A. Pham

11/02/05

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Mark A. Wilson, Reg. No. 43,994 on October 27, 2005.

2. The application has been amended as follows:

Claims 7, 28, 38, 55 are canceled.

Claim 1, line 10, after "queues", inserted "enqueueing said packets that are dequeued from said class-specific queues into VC-specific segmentation and re-assembly (SAR) queues; and dequeuing said packets from said VC-specific SAR queues according to a dequeuing algorithm that arbitrates among multiple VC-specific SAR queues."

Claim 27, line 12, after "VC-specific SAR queues", inserted "a quality of service (QoS)/SAR module for dequeuing packets from said VC-specific SAR queues."

Claims 37, lines 9, after "re-assembly (SAR) queues", inserted "means for dequeuing packets from said VC-specific SAR queues for segmentation into fixed-length cells."

Claim 47, line 11, after "VC-specific SAR queues", inserted "means for dequeuing packet from said VC-specific SAR queues for segmentation into fixed-length cells."

3. The following is an examiner's statement of reasons for allowance: the prior art made of record fails to teach or fairly suggests in combination enqueueing said packets that are dequeued from said class-specific queues into VC-specific segmentation and re-assembly (SAR) queues; and dequeuing said packets from said VC-specific SAR queues according to a dequeuing algorithm that arbitrates among multiple VC-specific SAR queues.".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kawarai et al (US 2001/0033581 A1) disclose method and apparatus to achieve QoS control, drop control and multicast control of a variable-length packet at high speed in small scale hardware, a packet divider divides a variable-length packet into fixed-length packet, and an input buffer section stores the divided fixed-length packets into queues by output lines and by QoS classes.

Moir (US 2002/0118644 A1) disclose a method to implement policy-based network traffic management includes receiving data pertaining to a network device at a network traffic manager.

Minkenberg (US 6,944,170 B2) discloses a switching arrangement for transporting data packets which comprise a section with data packet destination information and a payload section, to one or more output ports. The switching device is able to route the arriving data packets according to the data packet destination information, to at least one dedicated of the output ports.

Varma et al (US 5,859,835) discloses a traffic scheduling system and method for packet-switched communications networks where multiple sessions share an outgoing communication link.

Thomas et al (US 5,941,952) disclose an apparatus and method for transferring data from a source memory to a transmit buffer memory and then from the transmit buffer memory at the rate at which data is to be transmitted.

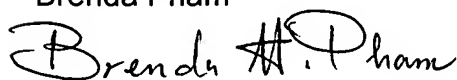
Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brenda Pham whose telephone number is (571) 272-3135. The examiner can normally be reached on Monday-Friday from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin, can be reached on (571) 272-3134.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

November 4, 2005
Brenda Pham

Brenda A. Pham